

THE DIPEPTIDE ALA-GLY IN THE GAS PHASE

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The dipeptide Ala-Gly has been examined in gas phase by laser ablation molecular beam Fourier transform microwave (LA-MB-FTMW) spectroscopy in the frequency region 3-12 GHz. Three rotamers have been detected in the supersonic expansion. The quadrupole hyperfine structure of two ^{14}N ($I=1$) nuclei has been totally resolved allowing the conclusive identification of one conformer.